

VOLKOV, Leonid Mikhaylovich, VISHNEVSKIY, Serafin Mikhailovich, MOISEIEV, P.N.,  
retsenzent, DOMSHOV, L.Y., ratsenzent, TOLCHENOV, T.V. spets.red.;  
FURB, V.K., red.; KISINA, Ye.I., tekhn.red.

[Organization of production in a tobacco factory] Organizatsiya  
proizvodstva na tabachnoi fabrike. Moskva, Fishchepromizdat, 1957.  
(MIRA 11:9)  
93 p.  
(Tobacco industry)

DONSKOV, V.

~~DONSKOV, V.~~ dots., kand. ekon. nauk.

Means of reducing the cost of containers for food products. Trudy  
(MIRE 10:12)  
MTIPP no. 7:283-294 '57.  
(Food industry--Costs) (Containers)

DONSKOV, V. Ye.

DONSKOV, V. Ye., dots., kand. ekon. nauk.

Production capacity in the food industry. Trudy MTIIPP no. 7:208-  
231 '57.  
(Food industry)

GILEL'S, G.G., kand.tekhn.nauk; DONSKOV, V.Ie., kand.ekonom.nauk,  
retsenzant, spetsred.; FEDOROVICH, M.M., kand.ekonom.nauk;  
retsenzant; HESH, G.S., red.; TARASOVA, N.M., tekhn.red.

[Setting up technical norms in the food industry] Tekhnicheskoe normirovanie v pishchevoi promyshlennosti. Moskva, Pishchepromizdat, 1959. 289 p.

(MIRA 14:2)

(Food industry)

DONSKOV, Vasiliy Yefimovich, dotsent, kand.ekon.nauk; ZUYEVA, Raisa Vasil'yevna, kand.ekon.nauk; KHUZHKOVA, Raisa Vasil'yevna, kand.ekon.nauk; MIKHAILOV, Yuriy Konstantinovich, dotsent, kand.ekon.nauk; MOISEYEV, Petr Nikitich, dotsent, kand.ekon.nauk; PONOMAREVA, Irina Andreyevna, kand.ekon.nauk; KHINKIS, Lev Akimovich, starshiy prepodavatel'; KAMENITSER, S.Ye., kand.ekon.nauk, retsenzent; nauchnyy red.; BULGAKOV, G.V., kand.ekon.nauk, retsenzent; SHVARTS, V.M., inzh.ekonomist, retsenzent; PRITYKINA, L.A., red.; SOKOLOVA, I.A., tekhn.red.

[Production organization and planning in food industry enterprises]  
Organizatsiya i planirovanie proizvodstva na predpriatiakh pishchevoi promyshlennosti. Moskva, Pishchepromindat, 1959. 605 p. (MIRA 12:9)  
(Food industry)

DONSKOV, V.; SHATKHAN, A.

"Distribution of the food industry in the USSR" by L.V.Opatskii.  
Reviewed by V.Donskov, A.Shatkhant. Vop.ekon. no.6:101-105  
Ja '59. (MIRA 12:9)  
(Food industry) (Opatskii, L.V.)

STEPANOV, Boris Dmitriyevich; DONSKOV, V.Ye., spets. red.; MOISEYEV, P.N..  
spets. red.; NOZDRINA, V.A., red.; KISINA, Ye.I., tekhn. red.

[Production organization and planning in enterprises of the  
meat industry] Organizatsiya i planirovanie proizvodstva na  
predpriyatiakh miasnoi promyshlennosti. Moskva, Pishchepromizdat,  
1960. 383 p.  
(Meat industry)

VESEL'OV, I.Ya., doktor biol.nauk; SHATKHAN, A.S., kand.ekon.nauk;  
DONSKOV, V.Ye., kand.ekon.nauk, retsenzent; KRUCHININ, V.F.,  
inzh., retsenzent; PRITYKINA, L.A., red.; KISINA, Ye.I.,  
tekhn.red.

[Brewing industry of the U.S.S.R. and prospects for its  
development] Pivovarennaya promyshlennost' SSSR i perspektivy  
ee razvitiia. Moskva, Pishchepromizdat, 1961. 236 p.  
(MIRA 14:4)

(Brewing industry)

DONSKOV, V.Ye., kand.ekon.nauk

Useful manual on technical standards. Masl.-zhir.prom. 27 no.5:45-46  
My '61. (MIRA 14:5)  
(oil industries)

DONSKOV, Vasiliy Yefimovich, prof.; ZUYEVA, Raisa Vasil'yevna, kand.  
ekon. nauk; KRUZHKOVA, Raisa Vasil'yevna, kand. ekon. nauk;  
MESHKOV, Yuriy Konstantinovich, kand. ekon. nauk; PONOMAREVA,  
Irina Andreyevna, kand. ekon. nauk; KHINKIS, Lev Akimovich,  
st. prepodavatel'; SHAMIN, Andrey Nikolayevich, st. prepoda-  
vatel'; KAMENITSER, S.Ye., doktor ekon. nauk, prof., retsenzent;  
SHVARTS, V.M., inzh.-ekon., retsenzent; FUKS, V.K., red.;  
PECHENKINA, O.P., tekhn. red.

[Production organization and planning in food industry enter-  
prises] Organizatsia i planirovanie proizvodstva na predpri-  
iatiakh pishchevoi promyshlennosti. [By] V.E.Donskov i dr.  
Moskva, Pishchepromizdat, 1963. 454 p. (MIRA 17:2)

ROMASHKINA, Aleksandra Fedorovna; LONSKOV, V.Ye., prof.,  
retserzent; FEDOROVSKIY, A.Ye., ekonomist, retserzent;  
PONOMAREVA, I.A.; kand. ekon. nauk; spets. red.; FUKE,  
V.K., red.

[Potentialities for an increase in labor productivity in  
the confectionary industry] Rezervy rosta prizveditel'-  
nosti truda v konditerskoj promyshlennosti. Moskva, Pi-  
shchevaia promyshlennost', 1964. 213 p. (MIRA 18.10)

MOROZOV, Mikhail Vasil'yevich; DONSKOY, V.Ya., retsenzent;  
BRONSHTEYN, L.B., retsenzent; KUZ'MINA, V.S., red.

[Organization and planning of production in fishing  
industry enterprises] Organizatsiya i planirovanie pro-  
izvodstva na predpriatiakh rybnoi promyshlennosti.  
2. izd. perer. i dop. Moskva, Pishchevaya promyshlen-  
nost', 1965. 442 p.  
(MIRA 19:1)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5

DONTSOVA, A.Ya.

Alloying structural steel. Metalloved. i term.ohr.met, no.9:14-17  
S '65. (MTRA 18:10)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5"

DOMSKOVA, G.Ye.

AUTHOR GRACHEV R.I., DOMSKOVA G.Ye., RYGINA P.T. 20-2-49/67  
TITLE New data on the stratigraphy and Distribution of callovian and oxfordian deposits upon the territory of the near-Caspian depression.- (Novyye dannyye o stratigrafii i rasprostranenii otlozheniy kelloveya i oksforda na territorii Prikaspinskoy vpadiny,- Russian)  
PERIODICAL Doklady Akademii Nauk SSSR 1957, Vol 113, Nr 2, pp 418-420  
ABSTRACT On a large area of the Caspian depression below the marine layers of the lower Volga-deposit there lies an immense (400-600 m), even mass alternatingly consisting of loam, sand, limestone, and sometimes coal. Till recently any fauna was refused to this layer, except for single Lingula sp. and Pseudomonotis sp. The plant-remains were determined as "middle jurassic" in a wider sense. For this reason this sediment mass was classified into the middle jurassic and the mainland: to the coastal zone of the sea and the swampy mainland. By the investigation of these layers the authors obviously could ascertain in their series sediments of the shallow sea, especially of the Callovian and Oxfordian deposits. In the extreme Southeast of the Emba-region there is an authentic middle jurassic a deposit of a rock layer mainly consisting of loam with thin intermediate layers of limestone, without any lime at the bottom, with a few plant-remains: higher up

CARD 1/5

20-2-49/67  
New data on the stratigraphy and Distribution of callovian  
and oxfordian deposits upon the territory of the near-  
Caspian depression.

20-2-29/30

it becomes slightly crèmeaceous in parts. According to the fossil determinations this mass doubtlessly have to be classified among the Callovian deposits. Its thickness is 110 m. Grey, sometimes slightly crèmeaceous, sandy loam with thin intermediate layers of loamy marl and a fauna of the Oxfordian deposit, lies on it with a thickness of 30 m. In the Asnagul-area below the lower Volga deposit in the upper part (formerly classified among the middle jurassic), sediments of all three stages of the mentioned deposits were discovered. They lay on authentic Bath-deposit sediments and are constructed alternatingly of limestone, loam with carbonized vegetabilic detritus, and slightly loamy marls. Lithologically they are identical with Bath and Callovian. Besides the fauna component mentioned by name, a characteristic pollen complex was found here, which does not reach down into the Bath and Bayos. Chiefly sackless pollen of the conventional-famyli Aggerelliz can be found here with two new kinds. The Callovian deposit is about 112 m thick. It is covered by the loam of the Oxfordian deposit (22 m thick) here, too. In the western part of the depression, between the rivers Ural and Volga, several

CARD 2/5

20-3-49/67

New data on the stratigraphy and Distribution of callovian  
and oxfordian deposits upon the territory of the near-  
Caspian depression.

~~SECRET//COMINT~~

drillings in Aukitaychagyl (Novokazanka) were investigated. Here, too, the upper part of the cross-section (formerly regarded as middle Jurassic) contains Callovian and Oxfordian sediments. On the Bath lies without noticeable interruption a packet of loam cretaceous in its upper part, 120 m thick, with a number of fossils, which are characteristic of the central and the lower Volga-region. Here the spore- and pollen-complex still appears, which is lacking further down and is mainly represented by new representatives of 6 conventional families. In the Oxfordian deposit here alternatingly sand-cretaceous-loams with marls occur, which contain carbonized plant detritus and pyrite crystals. Foraminiferae typical for the Oxfordian depositi are found. They are 35 m thick. In the central part of the Emba-region the upper horizons under the lower Volga-deposit are represented by sediments from shallow water, which have no marine fauna. Spore- and pollencomplex is of typical Callovian kind. The Callovian and

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20-2-49/67

New data on the stratigraphy and Distribution of callovian  
and oxfordian deposits upon the territory of the near-  
Caspian depression.

~~SECRET~~

Oxfordian deposits can easily be sorted out on diagrams by  
electrocarrottage. They are present in many summits of the  
region. Thus the existing of Callovian and Oxfordian deposits  
is demonstrated for the whole Embadistrict, except for the  
part of the salt-summits, which at that time had their most  
active period of development. However, at their peripheral  
parts of the summits they did not suffer any erosion. It can  
be maintained that the accumulation of sediments of this age  
occurred in the whole Caspian-depression. In a number of  
papers a new kind of plateau is shown in the central part  
of the Emba-region (Zhilokosinskoye, Tanatar- or Makat-  
elevation). Its presence explains the occurrence of the  
Callovian and Oxfordian deposit in the most shallow facies,  
which are the nearest to the continental ones, without any  
marina fauna, however with a typical spore- and pollen-  
complex, which is clearly distinguished from that one of the  
Bath deposit.

(8 citations from Slavic publications)

CARD 4/5

20-2-49/67  
New data on the stratigraphy and Distribution of callovian  
and oxfordian deposits upon the territory of the near-  
Caspian depression.  
~~SECRET//COMINT~~

ASSOCIATION: Central Scientific Research Laboratory of the Kazakhstanneft'  
(Kazakhstan-mineral oil)  
PRESENTED BY: N.M. STRAKHOV, Member of the Academy  
SUBMITTED: 20.1. 1956  
AVAILABLE: Library of Congress.

CARD 5/5

DONSKOY,A.

Don't rest on your laurels, strive forward! Mor.flot  
26 no.1:4-5 Ja '66. (MIRA 19:1)

1. Pervyy pomoshchnik kapitana teplokhoda "Ustyuzhna"  
Azovskogo upravleniya uglerudovoznogo flota.

~~DONSKOY, A.D., inzh.~~

Mining the main Cheremkhovo deposit seam by the chamber and  
pillar method. Izv.vys.ucheb.zav.; gor.zhur. no.11:9-18  
'58. (MIRA 12:8)

1. Irkutskiy gornometallurgicheskiy institut.  
(Cheremkhovo Basin--Coal mines and mining)

POLY, S.I.; DOMSKOI, A.Q., red.; MORGUNOVA, G.F., vodushchiy red.;  
MUKHINA, E.A., tekhn.red.

[Progressive practices of builders and assemblers of pipelines]  
Perevodoi optyt stroitelei i montazhnikov magistral'nykh truboprovodov; sbornik statei. Moskva, Gos.nauchno-tekhn.izd-vo neft. i gorno-toplivnoi lit-ry, 1960. 141 p. (MIRA 13:9)

R. Tsentral'naya normativno-issledovatel'skaya stantsiya po  
stroitel'stvu magistral'nykh truboprovodov.  
(Pipelines)

POBEDINSKIY, Leonid Vladimirovich; DONSKOY, A.G., red.; RASTOVA,  
G.V., ved.red.; VORONOV, V.V., tekhn.red.

[Setting up technical norms in the construction of main  
pipelines] Tekhnicheskoe normirovanie na stroitel'stvo  
magistral'nykh truboprovodov. Moskva, Gostoptekhizdat,  
1963. 110 p. (MIRA 16:9)  
(Pipelines--Production standards)

DONSKOY, A.G.

Cross dystopia of the kidneys. Vest.khir.no.1:136'63.

(MIRA 16:7)

1. Iz 2-go khirurgicheskogo otdeleniya (zav. - prof. D.L.Vaza)  
Moskovskoy gorodskoy klinicheskoy bol'nitsy no.6 (glavnnyy vrach  
N.S.Shevyyakov).

(KIDNEYS—ABNORMALITIES AND DEFORMITIES)

SOV/3-59-5-19/34

22(1)

AUTHOR:

Donskoy, A.I.

TITLE:

We Improve the Method of Laboratory Exercises

PERIODICAL:

Vestnik vysshey shkoly, 1959, Nr 5, pp 65 - 70  
(USSR)

ABSTRACT:

The author comments on the character and quality of laboratory training work, and the students' theoretical and practical preparedness for the laboratory exercises which he considers a necessary prerequisite for determining both the size and character of the task. He deals with the laboratory equipment which should be such as to permit work to be carried out on a contemporary level in science and engineering. In his opinion, complex stands should be furnished, permitting the accomplishment of 3 to 4 different projects and several variations of the same one. He explains the rational qualities of complex stands and speaks of students who are unable to carry out the work within the

Card 1/2

SOV/3-59-5-19/34

We Improve the Method of Laboratory Exercises

assigned time because of methodical mistakes committed by the composers of laboratory work. He also raises the question as to the students' duty to finish the entire work right away in the laboratory, and whether the student is obliged to fulfill the entire task. To this latter question the author gives an affirmative reply.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Power Engineering Institute).

Card 2/2

DONSKOY, A.M. [Dons'koi, O.M.]

Apatite rocks in the northwestern part of the Ukrainian Shield.  
Geol. zhur. 25 no.3:86-89 '65. (MTPA 18:11)

1. Institut geologicheskikh nauk AN UkrSSR.

L 5138-66 EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/JW  
ACCESSION NR: A1501B723 UR/0070/65/C10/004/0539/0546  
548.53

AUTHOR: Gol'dfart, V. M.; Gol'tsman, B. M.; Donskoy, An. V.; Stepanov, A. V.

TITLE: Thermal conditions for the process of crystallization by drawing from a melt

SOURCE: Kristallografiya, v. 10, no. 4, 1965, 539-546

TOPIC TAGS: crystal growing, crystallization, thermodynamic property

ABSTRACT: The crystallization technique dealt with in the article was developed previously by one of the authors (Stepanov, Zh. tekhn. fiz. v. 29, 381 and 394, 1959 and elsewhere). The authors derive relations for the determination of the thickness of the crystal ( $s$ ) as a function of the drawing rate ( $v$ ), the melt temperature ( $T$ ), the heat transfer coefficient ( $a$ ), the height of the crystallization front( $h$ ), which is assumed to be plane, and other thermodynamic characteristics of the crystallizing material. It is assumed that the process is stationary, the crystal is not confined from above, the crystallization takes place at a fixed temperature, the crystal is quite thin, and the thermodynamic characteristics of the material are independent of the temperature. Crystallization parameters, which are a combination of the thermodynamic properties of the material and facilitate comparison of the crystallization conditions of various materials, are introduced

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ACCESSION NR: AP5018723

and the crystallization behavior of numerous metals is compared. The results of the derived analytic equations are in satisfactory agreement with experiment. Orig. art. has: 4 figures, 19 formulas, and 3 tables.

ASSOCIATION: Leningradskiy gosudarstvennyy pedagogicheskiy institut im. A. I. Gertsena (Leningrad State Pedagogical Institute)

SUBMITTED: 02Sep64

ENCL: 00

44-55  
SUB CODE: SS

NR REF Sov: 008

OTHER: 001

PC  
Card 2/2

*Genspoy, A. J.**Ca*

100-148-0001  
PROCESSES AND PROPERTIES INDEX

The use of powdered quicklime without previous  
washing.—A. F. Donstot and M. A. Vetter. *Proc.  
Soc. Test. Mater.*, 1940, No. 4-5, 80-8; *Chem. Zentral.  
1940, III, 2036.*—Repts. are reported in which quicklime  
for use in all structural work was washed only on the site of  
construction and then used directly. M. G. M.

*20*

## ASA-ELA METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION

EDITION 1974 EDITION 1974

100-148-0001

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100-148-0001

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"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5

DONSKOI, H.P.

STRZHALKOVSKIY, Ye.G.; DONSKOI, A.P.; BOGDANOV, P.P.

Redesigning the TsSM-133 power press for the production of slag  
concrete blocks. Rats.i izobr.predl.v stroi. no.55:24-26 '53.

(MLRA 7:3)  
(Powder presses) (Cinder blocks)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5

DONSKOI, A.P.

STRZHALKOVSKIY, Ye.G.; DONSKOY, A.P.; BOGDANOV, P.P.; DUBNYAKOV, V.N.;  
IVANOV, A.K.; YAKOVLEV, N.N.

Interchangeable elements for press molds used in the TsSM-133  
power press for the production of slotted, hollow, slag concrete  
blocks. Rats.i izobr.predl.v stroi. no.55:27-29 '53. (MIRA 7:3)  
(Power presses) (Cinder blocks)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5"

DONSKOY, A.P.

DONSKOY, A.P., inzh.; SAPGIR, S.M., inzh.; SHTUKIN, V.V., inzh.

Manufacturing prestressed precast concrete beams with a 30  
meter span. Byul.tekh.inform. 3 no.3:3-5 Mr '57. (MIRA 10:10)  
(Girders) (Precast concrete construction)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5

DONSKOY, A.P., inzhener.

Ways to lower the cost of precast reinforced concrete. Biul.tekh.  
inform. 3 no.5:14-18 '57. (MIRA 10:10)  
(Precast concrete)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5

*Donskoy A.*  
DONSKOY, A. inzh.

Stand for making wire reinforced elements. Stroitel' no. 3:21 Mr  
'58. (MIRA 11:2)  
(Prestressed concrete)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5

DONSKOI, A.P., inzh.

Belite cement made with nepheline sludge. Biul.tekh.inform. 5  
no.2:10-11 P '59. (MIRA 12:4)  
(Cement)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5"

GOLOVIN, G.F., doktor tekhn. nauk, red.; DONSKOY, A.V., doktor tekhn. nauk, red.; SLUKHOTSKIY, A.Ye., kand. tekhn. nauk, red.; VOLOGDIN, Vs.V., dots., red.

[Industrial uses of high-frequency currents] Promyshlennoe primenenie tokov vysokoi chastoty. Moskva, Mashinostroenie 1964. 331 p. (MIRA 17:7)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5

DONSKOI, A.V.; LUTSKER, I.Sh.

Noncontact pulse recording. Priborostroenie no.12,5-7 D'63.  
(MIRA 17:5)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5"

~~L 47750-66~~

ACC NR: EWT(m)/EWP(t)/ETI/EWP(k) IJP(c) JN/WW/HW/JG/JR

AR6029494

SOURCE CODE: UR/0137/66/000/006/D033/D034

AUTHOR: Gol'dfarb, V. M.; Donskoy, A. V.; Stepanov, A. V.

HO

B

TITLE: Drawing of molten aluminum-manganese alloy into strip

SOURCE: Ref. zh. Metallurgiya, Abs. 6D233

REF SOURCE: Uch. zap. Leningr. gos. ped. in-ta im. A. I. Gertsen, no. 265,  
1965, 50-60

TOPIC TAGS: drawing, strip, alloy, alloy strip

ABSTRACT: The results of an investigation of drawing of molten aluminum-manganese alloy into strip and properties of the latter are given. The thickness of strip is determined in relation to the intensity of air blowing (air expenditure), the drawing rate, the melt temperature, and its level with respect to the upper plane of the floating die and the width of the slit of the latter. Both the macro- and microstructures of the material and its mechanical properties are investigated. A diagram of the casting device is given in the original article. N. Yudina. [Translation of abstract]

[AM]

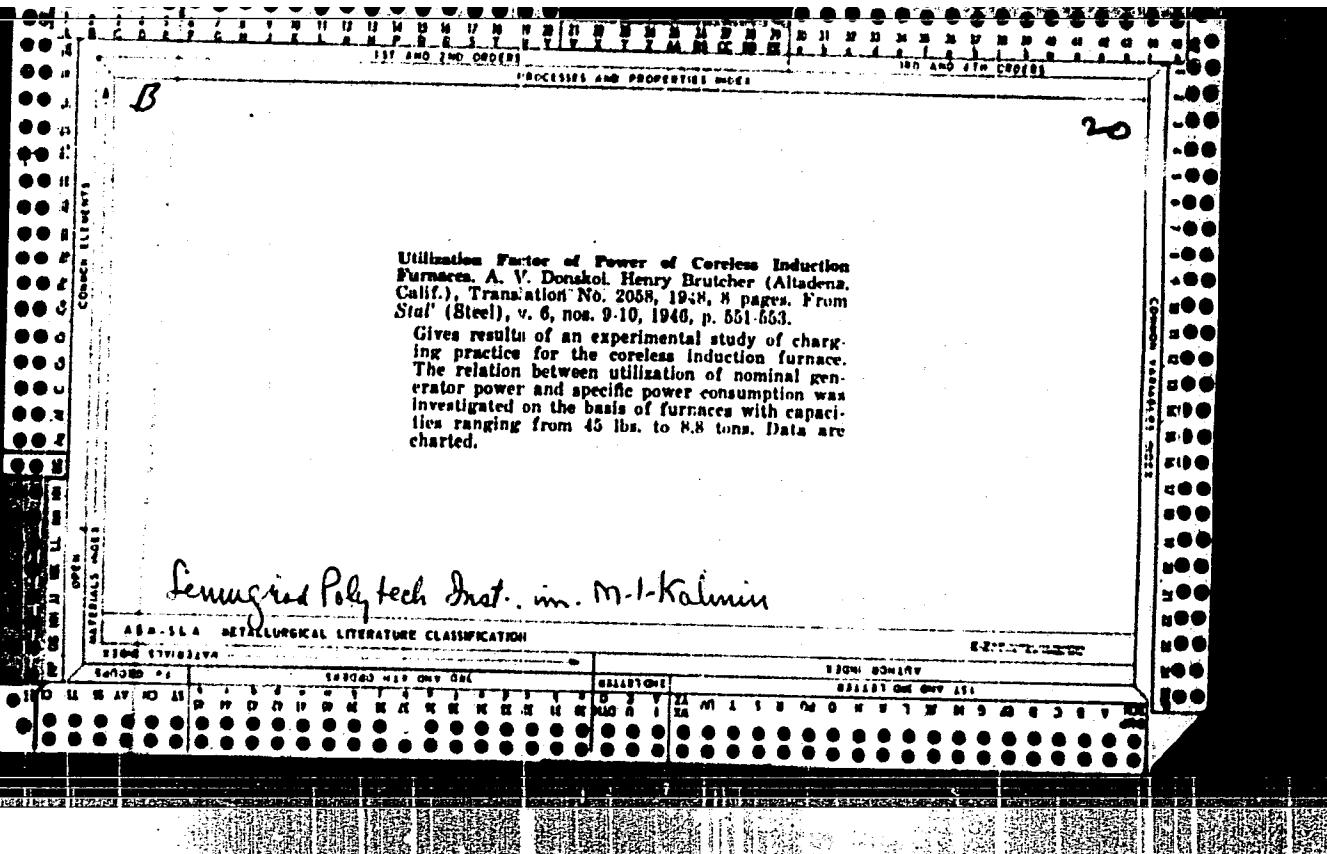
Producing strip from molten metal

18

SUB CODE: Mt 13/

Card 1/1

UDC: 621.771.24:669.71



TA 12T90

USSR/Magnetic Permeability  
Resistance, Electrical

Mar 1946

"Method of Control of Specimens with Respect to  
the Change of Specific Resistance and Magnetic  
Permeability," A. V. Donskoy, 4 pp

"Zhur Tekh Fiz" Vol XVI, No 3

Graphs showing the variation in magnetic permeabil-  
ity and specific resistance with varying amounts  
of carbon in steel, thus affording a method of  
analysis for determining carbon content.

12T90

DONSKOY, A. V., DONSKOY

PA 40/49T49

USSR/Engineering  
Tempering  
Heating, Electric

Apr 49

"Power Indexes of High-Frequency Equipment for  
Dielectric Heating (Tempering)," Docent A. V.  
Donskoy, S. M. Kulyashov, Cand. Tech. Sci., A. A.  
Fruskin, Engr., 3 pp

"Prom Energet," No 4.

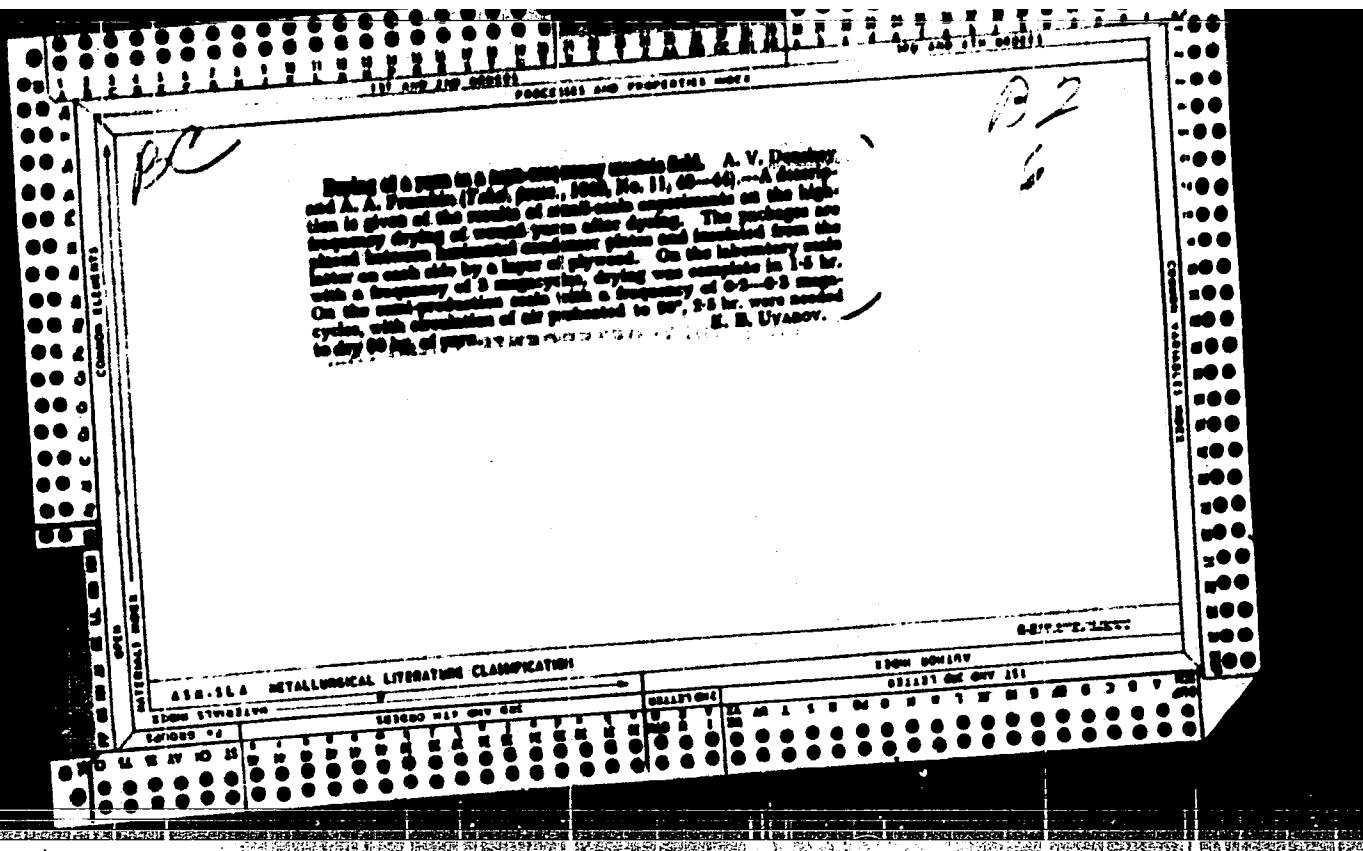
Problem of applying dielectric method of heating  
(tempering) as a technological process in industry  
must be solved separately in each case, with  
computation of all indexes involving technology,  
[redacted]

USSR/Engineering (Contd)

Apr 49

energy, and efficiency. Discusses different tech-  
nological tasks involving tempering of materials  
in high-frequency fields, according to which the  
power necessary for technological objectives will  
be relatively different. Gives two tables of ex-  
perimental results.

40/49T49



DONSKOY, A. V.

USSR/Engineering - Equipment, Electro-  
thermal  
Generators, Tube

Oct 49

"Automatic Power Regulation for High-Frequency  
Electrothermal Equipment," A. V. Donskoy, Cand Tech  
Sci, Leningrad Polytech Inst imeni M. I. Kalinin,  
4 pp

"Vest Elektro-Prom" Vol XX, No 10

High-frequency electrothermal equipment fed from  
vacuum-tube generators is widely used in industry  
to heat metals being worked by various methods.  
Describes suggested scheme of automatic regulation  
for such equipment, with six diagrams.

153r27

DONSKOV, A. V.

Induktsionnyi nagrev truboprovodov vysokogo davleniya pri svarke.  
Moskva, Mashgiz, 1950. 13, (3) p. illus. (Za tvorcheskoe  
sodruzhestvo uchenykh s proizvodstvom)

Bibliography: p. (lh).

(Induction heating of high-pressure pipe lines during the welding process.)

DLC: TK4601.D62

SO: Manufacturing and Mechanical Engineering in the Soviet Union,  
Library of Congress, 1953.

DONSKOI, A. V.

Vysokochastotnaia zakalka rezhushchei kromki vyrubnykh nozhei. Moskva,  
Mashgiz, 1950. 18, (2) p. illus. (Za tvorcheskoe sodruzhestvo  
uchenykh s proizvodstvom)

Bibliography: p. (19).

(High-frequency hardening of the cutting edge of chopping knives.)

SO: Manufacturing and Mechanical Engineering in the Soviet Union,  
Library of Congress, 1953.

DOKSKOI, A. V.

Dkleika drevesiny v elektricheskem vysokochastotnom pole. Moskva, Mashgiz, 1950.  
18,(2) p. diagrs. (Za tvorcheskos sodruzhestvo uchenykh s proizvodstvom.

Glueing of wood in an electric high-frequency field.

DLC: TS870.D6

SC: Manufacturing and Mechanical Engineering in the Soviet Union. Library of Congress  
1953

PA 171T29

USSR/Electricity - Dielectric Heating  
Automatic Control

Oct. 50

"Automatic Power Regulation in High-Frequency  
Installations Used for Dielectric Heating,"  
Docent A. V. Donskoy, Cand Tech Sci, Leningrad  
Polytech Inst imeni Kalinin

"Elektrichesivo" No 10, pp 46-49

Analyzes causes of unstable operating conditions  
in hf equipment used for dielectric heating of  
industrial materials. Gives experimental data  
on changes in basic physical properties of cer-  
tain industrial materials which occur when

171T29

171T29  
USSR/Electricity - Dielectric-Heating (Contd) Oct 50

based in hf electric field. Proposes automatic 3-  
position power regulation with feedback to reduce  
inertia and increase stability.

171T29

DONSKOY, A. V. DOCENT

DONSKOY, A. V.

USSR/Electronics - Induction Furnaces Dec 50

"Utilization of Thermal Energy Lost in High-Frequency Electrothermal Installations," A. V. Donskoy, Cand Tech Sci, A. A. Frumkin, Engr

"Prom Energet" No 12, p 8

Present hf electrothermal equipment with vacuum-tube oscillators shows losses of 45-70%. Authors suggest that thermal energy from water and air employed in cooling operations could be utilized by industrial enterprises to effect substantial savings.

213T50

DONSKOY, Docent A. V.

189T21

USSR

~~USSR/ELECTRICITY - INDUCTION HEATING~~  
USSR/Electricity - Induction Heating May 51  
Permeability

"Magnetic Permeability In Induction Heating,"  
Docent A. V. Donskoy, Cand Tech Sci, Leningrad  
Polytech Inst imeni Kalinin

"Elektrichestvo" No 5, pp 27-30

Shows advantages of designing equipment for in-  
duction heating of ferromagnetic metals through  
quant data of magnetic permeability from sp  
surface power instead of from magnetic fld in-  
tensity. Submitted 24 Jul 50.

189T21

C.R.  
1951

*leather and glue*

Drying of inflexible leather in high frequency electric field L. P. Pavlov, A. N. Kuznetsov, and A. A. Yermakov *Izdat. Prom. 11*, No. 2, 27 (1950). Elec properties of leather and some problems in high frequency drying are discussed. During the initial period of drying, this method is less effective than the air-convection method. Efficiency can be improved by drying with an air stream during the initial stage and in a high frequency field during the final stage; during the final stage the evapd. moisture is to be removed from the immediate space with a stream of heated air. Drying and power-balance curves are given.

B. Z. Kamich

BEL'SKIY, I. R.; BESEKERSKIY, V. A.; DONSKOY, A. V.;  
PRESS, A. S.; YURKOVSKIY, YE. K.

Electric Engineering

"General course on electric engineering for non-electrotechnical higher technical schools. General electric engineering." Reviewed by Profs. V. P. Khashechinskiy, S. A. Press. Elektrичество no. 8, 1952.

Monthly List of Russian Accessions. Library of Congress. November 1952. UNCLASSIFIED

DONSKOI, A.V.

Operating characteristics of high-frequency electrothermal equipment.  
[Izdatia] LOMITOMASH no.30:111-121 '52.  
(Electron-tube oscillators) (MLRA 8:1)

DONSKOI, A.V.; IVMNSKIY, G.V.

High-frequency voltmeter for electrical engineering installations. Prom.  
Energ. '53, No.4, 13-15.  
(MLRA 56 no.672:4877 '53) (MLRA 6:4)

SOVIET UNION, M.V.

Electrical Engineering Abstracts  
Vol. 57 No. 676  
Apr. 1954  
Electrical Engineering

OK  
9/7/54

② Electrical Instrument, ①  
1525. Rectifying wattmeters for high-frequency  
electrothermal equipment. A. V. LANDMAN AND G. V.  
IVANOV. Elektrichesko, 1953, No. 10, 46-50. In:  
Russian.

It is important to establish accurately the efficiency of an r.f. equipment, its power being usually developed in an output resonant circuit. Of all the known methods including those utilizing square-law characteristics of valve amplifiers and rectifiers, the most satisfactory one is the system employing linear-law thermionic or metal rectifiers with electrodynamic wattmeter as indicator, and determining power as the difference between squared currents or voltages which correspond to those developed across the matched load. The principle of the circuit is shown and analysed; it consists of 4 rectifiers, two working in parallel and the other two in a biphasic circuit, with RC combinations as detector loads. Formulae for component values are derived, and a vector diagram explaining the operation is constructed. The full circuit, including the primary and secondary transformer windings of the electrodynamic wattmeter and the effect of their mutual inductance, is then described and illustrated by a practical example. In the frequency range of  $10^4$ - $10^4$  c/s the instrument is accurate within 8%, provided that the waveforms are sinusoidal.

A. LANDMAN

621.165.31  
4259. Problems of theory and calculation in induction  
heating. A. V. DONTROF. Elektricheskoe, 1954, No. 3,  
52-61. In Russian.

The shortcomings of the present theory of induction  
heating of conductors which neglects the variation of  
the electrical characteristics of the materials in the  
direction of propagation of the electromagnetic wave  
are pointed out. An exact solution is obtained of the  
problem of the induction heating of a ferromagnetic  
substance bounded by a plane of infinite extension,  
where the physical characteristics of the medium  
vary continuously according to an arbitrary law.

B. F. CRAIG

2

Subject : USSR/Electricity AID P - 647  
Card 1/1 Pub. 27 - 16/34  
Authors : Donskoy, A. V., Dr. of Tech. Sci., and Frumkin, A. A.,  
Eng., Leningrad  
Title : Centralized feeding of induction heaters from vacuum tube  
oscillators  
Periodical : Elektrichestvo, 9, 70-74, S 1954  
Abstract : The problem of feeding several induction heating installations is discussed. Several circuit diagrams and installation layouts are investigated. 7 drawings, 3 references (1946-1949).  
Institution : Leningrad Polytechnical Institute im. Kalinin and  
"Sevzapromelektropech"  
Submitted : Ap 22, 1954

Subject : USSR/Electricity  
Card 1/1 Pub. 27 - 28/34 AID P - 659  
Author : Donskoy, A. V., Dr. of Tech. Sci.  
Title : Industrial application of high-frequency currents.  
Report from a conference (Current News).  
Periodical : Elektrichestvo, 9, 92-93, S 1954  
Abstract : A brief review of reports presented to the conference held  
in June 1954 in Leningrad.  
Institution : Leningrad Branch of the All-Union Scientific Engineering  
and Technical Society of Machine Builders.  
Submitted : No date

Donskoy, A.V.

Subject : USSR/Electricity    AID P - 1190  
Card 1/1    Pub. 29 - 12/27  
Authors     : Donskoy, A. V., Kand. of Tech. Sci. and Frumkin, A. A., Eng.  
Title       : Economizing electric power in the operation of high-frequency electrothermic installations  
Periodical : Energetik, 12, 14-16, D 1954  
Abstract    : The authors suggest a new design of an arrangement for case hardening and for melting metals, which, according to their experience, provides considerable economy in power consumption. Twc diagrams, 1 table.  
Institution : None  
Submitted   : No date

~~DO NOT COPY~~ USSR/Engineering - Induction heating

Card 1/1 Pub. 328 - 17/34

Authors : Donskoy, A. V., and Khansuvarov, A. A.

Title : The induction heating with radio-frequency currents of blanks for the forging and stamping industry

Periodical : Vest. mash. 12, 60-6?, Dec 1954

Abstract : The editorial gives some information concerning the experiment conducted by M. I. Kalinin's Polytechnical Institute in Leningrad, in the field of induction heating of billets and blanks with radio frequencies. A short description of tube generators, induction heating and the change in range of heating temperatures is given. Five USSR references (1949-1953). Diagram; graphs.

Institution : .....

Submitted : .....

DONSKOI, A. V.

USSR/Physics - Crystallography

FD-589

Card 1/1 : Pub 153-1/22

Author : Stepanov, A. V. and Donskoy, A. V.

Title : New Mechanism of plastic deformation of crystals. I. Study of laminating process by an optic method. II. Determination of crystallographic characteristics of the laminating process.

Periodical : Zhur. tekhn. fiz., 24, 161-183, Feb 1954

Abstract : Describe new mechanism governing the plastic deformation of crystals called lamination, first discovered by A. V. Stepanov (Izv. ak. nauk SSSR, fiz. 797 (1937)). Consider this phenomenon, together with sliding and twinning, a common property of all crystals, including metals and alloys. Give detailed method of investigation, tables, graphs and pictures. Indebted to A. L. Shakh-Budagov and V. A. Moskiyevskiy of Leningrad Mining Institute. 27 references, including 7 foreign. Reported in the Leningrad Politechnic Institute im M. I. Kalinin in May 1949 and at a meeting of the Commission on Stability, Acad Sci USSR, in May 1952.

Submitted : August 15, 1952

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5

DONSKOY, A.V.

High-frequency apparatus with electron-tube generators. [Ind.]  
LONITOMASH no.33:45-74 '54. (MLRA 8:2)  
(Induction heating) (Electron-tube oscillators)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5"

DONSKOY, A.V.; FRUMKIN, A.A.

New design of electrodes for dielectric contact heating. [Izd.]  
LONITOMASH no.33:274-282 '54.  
(Electrodes)(Dielectric heating) (MLRA 8:2)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5

DONSKOI, A.V.; IVANSKIY, G.V.; FRUMKIN, A.A.

Large-capacity electromagnetic voltage stabilizers. [Izd.]  
LONITOMASH no.33:299-312 '54.  
(Voltage regulators) (MLRA 8:2)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5"

DONSKOY, A.V., doktor tekhnicheskikh nauk, professor.

High-frequency current in industry. Nauka i Zhishn' 22 no.11:7-9  
N '55. (Induction heating) (MLRA 9:1)

DONSKOI, A.V., doktor tekhnicheskikh nauk.

Inductors for induction heating of machine parts. A.E.Slukhotetskii,  
S.B.Ryskin, reviewed by A.V.Donskoi. Vest.nauk. 35 no.10:88 O  
'55.

(MIRA 9:1)

(Induction heating)(Steel--Heat treatment)

DONSKOI, Aleksandr Vasil'yevich, doktor tekhn.nauk; IVENSKIY, Grigoriy  
Vasil'yevich, inzhener; ACHKINADZE, Sh.D., red.; FREGER, D.P., tekhn.red.

[Stabilized anode rectifier for electrothermal equipment; practices  
of "Sevzappromelektropich" and the M.I.Kalinin Polytechnic Institute  
in Leningrad] Stabilizirovannyi anodnyi vypriamitel' dlja elektro-  
termicheskikh ustrojstv; iz opyta "Sevzappromelektropech" i LPI  
imeni M.I.Kalinina. Leningrad, 1956. 14 p. (Leningradskii dom  
nauchno-tehnicheskoi propagandy. Informatsionno-tehnicheskii  
listok, no.19. Elektricheskie metody obrabotki metallov) (MIRA 10:12)  
(Electric current rectifiers)

BOGDANOV, V.N.; RYSKIN, G.Ye.; SHAMOV, A.N.; VOLODIN, V.V., inzhener,  
retsensent; DONSKOY, A.V., professor, redaktor; VASIL'YEVA, V.P.,  
redaktor izdatel'stva; SOKOLOVA, L.V., tekhnicheskiy redaktor

[Induction heating in forging] Induktionnyi nagrev v kuznechnom  
proizvodstve, Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit.  
lit-ry, 1956, 198 p.  
(Induction heating) (Forging) (MLRA 9:8)

2470. STABILIZED THYRATRON RECTIFIER WITH  
REGULATION. A.V. Dorokov and G.Y. Iven.

Electricity, 1959, No. 11, 31-42, Leningrad.

At present the phase principle is most frequently used for the grid control of rectifiers. In stabilized rectifiers controlled to this principle the phase angle between the grid voltage and the rectified

2470. AMPLITUDE

2

voltage, determining the regulation angle, is a function of the effective value of the system voltage. This principle, although accurate, requires complicated control gear, thus limiting its use in commercial rectifiers. The amplitude principle is more accurate, but more convenient to operate; oscillations of the system voltage of  $\pm 10\%$  of the rated value cause variations of  $\pm 1.5\%$  of the rectified voltage. In an amplitude-type control circuit two voltages are impressed on the rectifier grid, via, a reference voltage (a fraction of the system voltage), and a variable control voltage, the amplitude of which is directly proportional to the effective value of the system voltage; the latter is supplied by a small auxiliary rectifier connected to the ferroresonant stabilizer of the thyatron heating voltage through a potentiometer; the latter enables the reference voltage to be adjusted and thereby the level of the stabilizing voltage to be controlled. Description of circuit, theory and experimental results.

B.P. Kraus

DONSKOY, A.V., doktor tekhnicheskikh nauk, professor; FRUMKIN, A.A.,  
fizik.

Using dielectric heating to dry capacitor paper in rolls.  
Vest.elektrprom. 27 no.5:35-39 by '56. (MIRA 9:12)

1. Leningradskiy politekhnicheskyy institut imeni M.I. Kalinina  
(for Donskoy) 2. Sevsappromelektropech' Ministerstva elektricheskoy  
promyshlennosti.  
(Dielectric heating) (Condensers (Electricity)--Drying)

DONSKOY, A.V., doktor tekhnicheskikh nauk, professor; FRUMKIN, A.A.,  
Tikhmenev.

Standards for maximum allowable industrial interference. Vest.  
elektrtoprom. 27 no.11:54-56 N "56. (MLBA 9:12)

1. Leningradskiy politekhnicheskiy institut (for Donskoy).
2. Leningradskiy zavod vysokochastotnykh ustrojstv (for Frumkin).

(Radio--Interference)

RYSKIN, Solomon Yefimovich; FOGEL', A.A., kandidat tekhnicheskikh nauk, redaktor; SPITSYN, M.A., kandidat tekhnicheskikh nauk, redaktor; SLUCHOTSKIY, A.Ye., kandidat tekhnicheskikh nauk, redaktor; GLUMOV, N.P., kandidat tekhnicheskikh nauk, redaktor; BAMYAKH, A.B., inzhener, redaktor; SIMONOVSKIY, N.Z., redaktor izdatel'stva; DONSKOY, A.V., professor, doktor tekhnicheskikh nauk, retsenzent; SYCHEVA, O.V., tekhnicheskiy redaktor

[Hardening machines] Zeklochnye stanki. Izd. 2-e, ispr. i dop. Pod red. A.A.Fogelia. Moskva, Gos.sauchno-tekhn. izd-vo mashino-stroit. lit-ry, 1957. 46 p. (Biblioteka vysokochastotnikov-terniata, no.11)

(Induction heating) (Metals--Hardening)

*Donskoy, A. V.*

ZHEZHERIN, Rostislav Petrovich; SPITSYN, Mikhail Aleksandrovich, kandidat  
tekhnicheskikh nauk; MOGEL', A.A., kandidat tekhnicheskikh nauk, re-  
daktor; SLUKHOTSKIY, A.Ye., kandidat tekhnicheskikh nauk, redaktor;  
GLUKHANOV, N.P., kandidat tekhnicheskikh nauk, redaktor; BAMUNER, A.V.,  
inzhener, redaktor; SIMONOVSKIY, N.Z., redaktor izdatel'stva; DONSKOY,  
A.V. Professor, doktor tekhnicheskikh nauk, retsensent; SYCHEVA, O.V.  
tekhnicheskiy redaktor.

[Power generators for high-frequency heating] Mashinnye generatory  
dlia vysokochastotnogo nagрева, Izd.2-e, ispr. i dop. Pod red. A.A.  
Fogelia, Moskva, Gos.nauchno-tekn.izd-vo mashinostroit.lit-ry,  
1957. 49 p. (Bibliotekha vysokochastotnika-termista, no.8)  
(MLRA 10:6)

(Induction heating) (Electric generators)

Donskoy, A. V.

DEMICHEN, Aleksey Dmitriyevich; SHASHKIN, Semen Vasil'yevich; DONSKOY, A.V.,  
prof., doktor tekhn.nauk, retsenzent; FOGEL', A.A., kand.tekhn.ENTZ,  
red.; GLUKHANOV, N.P., red.; GOFMAN, Ye.K., red.izd-va; SPERANSKAYA,  
O.V., tekhn.red.

[Highfrequency hardening] Vysokochastotnaja zakalka. Izd. 2-oe,  
ispr. i dop. Pod red. A.A.Fogelia. Moskva, Gos.neuchno-tekhn.  
izd-vo mashinostroit. lit-ry, 1957. 52 p. (Bibliotekha vysoko-  
chastotnika-termista, no.3)  
(Metals--Hardening) (Induction heating)

Donskoy, A. V.

Call Nr: AF 1140766

AUTHOR: Shekalov, A.A., Shtreys, Ya.I., Blinov, B.V.

TITLE: Melting in Small Coreless-Induction Furnaces  
(Plavka v malykh besserdtechnikovykh induktsionnykh  
pechakh)

PUB. DATA: Gosudarstvennoye nauchno-tehnicheskoye izdatel'stvo  
mashinostroitel'noy literatury; Moscow-Leningrad,  
1957 (2-nd edition), 53 pp. 10,000 copies.

ORIG. AGENCY: Leningrad Division of Mashgiz (State Scientific and  
Technical Publishing House of Literature on Machine  
Building).

EDITOR: Fogel', A.A., Candidate of Techn. Sc.; Reviewer: Don-  
skoy, A.V., Professor, Doctor of Techn. Sc.;  
Editorial Staff: Fogel', A.A., Candidate of Techn.Sc.,

Card 1/4

Call Nr: AF 1140766

## Melting in Small Coreless-Induction Furnaces (Cont.)

Chief Editor of 2nd ed.; Spitsyn, M.A., Candidate of Techn. Sc.; Slukhotskiy, A.Ye., Candidate of Techn.Sc.; Glukhanov, N.P., Candidate of Techn.Sc.; Bamuner, A.V., Eng., Editor of the Leningrad Division of Mashgiz: Bol'shakov, M.A., Eng.; Editor-in-Chief of the State Scientific and Technical Publishing House of Literature on Machine Building: Simonovskiy, N.Z.; Tech. Ed.: Sycheva, O.V.; Proofreader: Khoroshkevich, V.M.

PURPOSE: The present brochure is one of the "Pocket Library of the High-Frequency Furnace Operator" ("Bibliotekha vysokochastotnika-termista") series publications. The purpose of this series is to present the latest achievements in the field of high-frequency practice, the scientific findings of the High-Frequency Power Institute (Institut tokov vysokoy chastoty) im. Professor V.P. Vologdin, and the practical findings gathered in this field of technology in the Soviet Union and abroad, in order to further the wide introduction of high-frequency melting methods and advanced metallurgical production methods. The brochures are written for the rank and file workers of the metallurgical industry.

Card 2/4

Melting in Small Coreless-Induction Furnaces (Cont.) Call Nr: AF 1140766

COVERAGE: The authors explain the basic principles of the coreless-induction furnace melting practices with access of air, in a vacuum, and in various protective media. They describe the construction of various melting furnaces, the preparation of the crucible, and different melting methods. Some of the data refer to the smelting furnaces which have been developed jointly by the "Elektrik" Plant and the laboratory of Professor V.P. Vologdin, a Soviet pioneer in the field of induction melting. These furnaces range in capacity from 10—3,000 kg. They have been installed at many Soviet industrial plants by the "Elektroprom" Organization. The authors list no bibliographical references.

Card 3/4

SLUKEOTSKIY, Aleksandr Yevgen'yevich, kandidat tekhnicheskikh nauk;; FOGEL', A.A., kandidat tekhnicheskikh nauk, redaktor; SPITSYN, M.A., kandidat tekhnicheskikh nauk, redaktor; GLUKHANOV, N.P., kandidat tekhnicheskikh nauk, redaktor; RAMUNER, A.B., inzhener, redaktor; VASIL'YENVA, V.I., redaktor izdatel'stva; DONSKIY, A.V., professor, doktor tekhnicheskikh nauk, redaktor; SYCHEVA, U.V., tekhnicheskiy redaktor.

[Inductors used in steel hardening] Zakalochnye induktory. Izd.2-ee, ispr. i dop. Ped. red. A.A. Fogelia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 54 p. (Biblioteka vysokochastotnikov-termitista, no.6) (MLRA 10:6)

(Induction heating) (Steel--Hardening)

Donskoy, AV

SUDAKOV, P.M.; DONSKOY, A.V., prof., doktor tekhn.nauk, retezendent; FOGEL',  
A.A., kand.tekhn.nauk, red.; SPITSYN, M.A., kand.tekhn.nauk, red.;  
SLUKHOTSKIY, A.Ye., kand.tekhn.nauk, red.; GLUKHANOV, N.P., kand.  
tekhn.nauk, red. BAMUNER, A.V., inzh., red.; SPERANSKAYA, O.V.,  
tekhn.red.

[Instruments and measuring in high-frequency heating] Pribory i  
izmereniia pri vysokochastotnom nagреве. Pod red. A.A.Fogelia.  
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957.  
54 p. (Bibliotekha vysokochastotnika-termista, no.16) (MIRA 11:2)  
(Electric heating--Measurement)  
(Electric meters)

Venashch. M.A.

SHAMOV, Aleksandr Nikolayevich; FOGEL', A.A. kandidat tekhnicheskikh nauk, redaktev; SPITSYN, M.S., kandidat tekhnicheskikh nauk, redaktev; SIJUKHOTSKIY, A.Ye., kandidat tekhnicheskikh nauk, redaktev; GLUKHANOV, N.P., kandidat tekhnicheskikh nauk, redaktev; BANISTER, A.V., inzhener, redaktev; SIMONOVSKIY, N.Z., redaktev izdatel'stva; DONSKOY, A.V., professor, doktor tekhnicheskikh nauk, retsenzent; SYCHEVA, U.V., tekhnicheskiy redaktev.

[Current supply of high-frequency heating installations by power generators] Pitaniye vysokochastotnykh nagrevatel'nykh ustroistv ot mashinnykh generatorov, Izd.2-ee, ispr. i dop. Ped red. A.A. Fogelia. Moskva, Gos.sciuchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 55 p. (Biblioteka vysokochastotnika-termista, no.10)

(MIRA 10:6)

(Induction heating)

DONSKOY, AV.

Glukhanov, Nikolay Parmenovich

Fizicheskiye osnovy vysokochastotnogo nagreva (Physical Principles of High-frequency Heating) 2nd ed., rev. and enl. Moscow, Mashgiz, 1957, 58 p. (Biblioteka vysokochastotnika-termista, vyp. 2)  
10,000 copies printed.

Ed.: Fogel', A.A., Candidate of Tech. Sciences; Reviewer:  
Donskoy, A.V., Dr. of Tech. Sciences, Prof.; Series  
Editorial board: Fogel', A.A. (Chairman); Spitsyn, M.A.,  
Candidate of Tech. Sciences; Slukhotskiy, A.Ye.,  
Candidate of Tech. Sciences; Glukhanov, N.P., Candidate  
of Tech. Sciences; Bamner, A.V., Engr; Ed. of the  
issue: Slukhotskiy, A.Ye. Chief Ed. of the Leningrad  
Division of Mashgiz: Bol'shakov, S.A., Engr; Ed. of  
Publishing House: Simonovskiy, N.Z.; Tech. Ed.:  
Sycheva, O.V. Corrector: Khoroshkevich, V.M.

Card 1/4

**Physical Principles of High-frequency Heating (Cont.)**

**PURPOSE:**

The brochures published in the series "Bibliotekha vysokochastotnika-termista" are intended for wide circles of industrial workers interested in high-frequency heating technique.

**COVERAGE:**

The brochure presents in an easily accessible form the physical principles of high-frequency heating of metals and dielectrics. An understanding of the theory of electric and magnetic phenomena, of the theory of electromagnetic fields and of heating with an electromagnetic field is considered necessary in order to be able to work in the field covered by the brochures of the series. A complete list of the brochures included in the series is published at the end of each issue. There are 5 Soviet references.

Card 2/4

*D. Donskoy, A.V.*  
PHASE I BOOK EXPLOITATION

353

Vasil'yev, Aleksandr Sergeyevich.

Lampovyye generatory dlya vysokochastotnogo nagreva (Vacuum-tube  
Oscillators for High-frequency Heating) Moscow, Mashgiz, 1957.  
60 p. (Bibliotekha vysokochastotnika-termista, vyp. 9) 10,000  
copies printed.

Ed.: (title page): Fogel', A.A., Candidate of Technical Sciences;  
Reviewer: Donskoy, A.V., Doctor of Technical Sciences, Professor;  
Ed. of Publishing House: Gofman, Ye.K.; Tech. Ed.: Speranskaya, O.V.  
Editorial board of series: Fogel', A.A. (Chairman); Spitsyn, M.A.  
Candidate of Technical Sciences (Ed. of this issue); Slukhotskiy, A.Ye.,  
Candidate of Technical Sciences; Glukhanov, N.P., Candidate of Technical Sciences, and Bamuner, A.V., Engineer.

PURPOSE: This monograph, one of a series of booklets published under  
the general title "Bibliotekha vysokochastotnika-termista"  
is addressed to a wide circle of workers in industry who are  
interested in high-frequency heating technique and equipment.  
The series is intended to encourage the widespread introduc-  
tion of high-frequency heating, and the exchange of the latest  
Card 1/5 production experience.

## Vacuum-tube Oscillators for High-frequency Heating (Cont.) 353

**COVERAGE:** This booklet is concerned with one phase of high-frequency heating technique, i.e., vacuum-tube oscillators for high-frequency heating. The series "Bibliotekha vysokochastotnika-terminista" is devoted to publicizing the latest developments in the field of high-frequency heating, and the results of experimental work carried on by the Institute of High-Frequency Currents imeni V.P. Vologdin. Other work being carried on in this field in the Soviet Union and in the non-Soviet world is also covered. This booklet discusses the general principles for the design of vacuum-tube oscillators, and the function of the individual units. Commercial types of oscillators are described, and the problems of adjusting and tuning the units are discussed as well as the future development of vacuum-tube oscillators. This type of apparatus is important in many branches of industry where 100 kc/s currents are employed in dielectric and induction heating. In the USSR, all oscillators for this purpose are of the self-excitation type inasmuch as frequency stability is not important in the high-frequency heating of metals and semiconductors. The equipment is produced at the Leningrad

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Vacuum-tube Oscillators for High-frequency Heating (Cont.) 353

High-Frequency Equipment Plant. Included in the discussion of the development of vacuum-tube oscillators is a description of a new type of oscillator, the electron-tube inverter, with which it is possible to generate high-efficiency currents of various frequencies. Various types of equipment of Soviet manufacture are described and a table of specifications is presented (pp 48, 49). No personalities are mentioned. A complete list of all the booklets of the series is given at the end of each issue (on inside back cover). There is a bibliography of 4 Soviet sources.

TABLE OF	
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1. General Information	3
2. Vacuum-Tube Static Operation Conditions	8
3. Vacuum-Tube Dynamic Operation Conditions	11

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DONSKOY, A.V.

PHASE I BOOK EXPLOITATION

328

Britsyn, Nikolay Lukich

Nagrev v elektricheskem pole vysokoy chastoty (Heating in High-frequency Electric Fields) 2d ed., rev. and enl. Moscow, Mashgiz, 1957. 62 p. (Bibliotekha vysokochastotnika-termista, vyp. 15) 10,000 copies printed.

Ed. (title page): Fogel', A.A., Candidate of Technical Sciences; Reviewer: Donskoy, A.V., Doctor of Technical Sciences, Professor; Ed. of Publishing House: Gofman, Ye.K.; Tech. Ed.: Speranskaya, O.V.; Editorial Board of Series: Fogel', A.A., Candidate of Technical Sciences (Chairman), Spitsyn, M.A., Candidate of Technical Sciences, Slukhotskiy, A.Ye., Candidate of Technical Sciences, (Ed. of this issue), Glukhanov, N.P., Candidate of Technical Sciences, and Bamuner, A.V., Engineer. Chief Ed. of the Leningrad Division of Mashgiz: Bcl'shakov, S.A.

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Heating in High-frequency Electric Fields (Cont.)

328

**PURPOSE:** This booklet is one of a series published in order to acquaint the reader with the experimental work in the High-frequency Institute imeni Prof. Vologdin, V.P., as well as with other developments in this field in the USSR and abroad. Its aim is to promote the use of high-frequency methods, and it is intended for a wide circle of industrial workers interested in high-frequency heating-methods.

**COVERAGE:** The author describes the effect of high-frequency heating of nonconductors and semiconductors in the magnetic and electric fields. Descriptions are given of heating methods used in drying moist materials (like food stuff, silk cocoons, and lumber), molding of thermosetting materials, welding of thermoplastic materials and other industrial purposes. There are 4 bibliographical references, all Soviet.

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Heating in High-frequency Electric Fields (Cont.) 328

TABLE OF CONTENTS:	Page
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1. Properties of Materials as Related to the Heating Process	9
2. The Importance of Frequency Selection in the Heating Process	14
3. High-frequency Drying	22
4. Heating of Thermosetting Plastics	38
5. Welding of Thermoplastic Plastics	40
6. Other Uses of High-frequency Heating	49
7. Future Possibilities for High-frequency Heating	62
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AVAILABLE: Library of Congress

Card 3/3

LS/1sb  
27 May 1958

Donskoy, A. V.

Call Nr: None given

AUTHOR: Russinkovskiy, I. P.

TITLE: New Methods of Induction Heating (Novye v praktike  
induktsionnogo nagreva)

PUB. DATA: Gosudarstvennoye nauchno-tehnicheskoye izdatel'stvo  
mashinostroitel'noy literatury, Moscow-Lenigrad, 1957,  
65 pp., 6000 copies.

ORIG.AGENCY:None given

EDITOR: Donskoy, A. V., Doctor of Technical Sciences; Chief Ed.  
for Machinery Literature of the Leningrad Branch of the  
Publishing House, Bol'shakov, S. A., Eng.; Tech. Ed.:  
Sokolova, L. V.; Reviewer: Mondrus, D. B. Candidate of  
Technical Sciences.

PURPOSE: The booklet is intended for the technical personnel of  
machine-building plants, and its purpose is to help ex-  
pand the use of high frequency current heating for case-  
hardening.

Card 1/5

New Methods of Induction Heating (Cont.)

Call Nr: None given

COVERAGE: A description of high-efficiency inductors with magnetic ferrite circuits is given and their practical use for hardening of metal parts, internal surfaces, gears, etc, with high-frequency current heating is explained. The following Soviet contributors to the study of induction heating are mentioned: Vologdin, V. P., (p. 5), Babat, G. I., (p. 6), Donskoy, A. V., Dr. of Tech. Sci., (pp. 7, 42), Berezovskiy, V. N., Eng., (p. 25), Spivak, E. D., and Kagan, Ye. S., (p. 26), Ivenskiy, G. V., (p. 42), Kidin, I. N., (p. 43), Slukhotskiy, A. Ye, and Ryskin, S. Ye. (p. 56), and the author (p. 26, author's certificate). The Central Scientific Research Institute of Technology and Machinery (TsNIITMASH) is also mentioned (p. 56). Several Soviet types of induction heaters are described in the text and some specifications and detailed illustrations are given. There are 3 references, 2 of which are Soviet and one is a Russian translation of an American book.

Card 2/5

BOGDANOV, Valentin Nikolayevich; FOGEL', A.A. kandidat tekhnicheskikh nauk, redaktor; SPITSYN, M.A., kandidat tekhnicheskikh nauk, redaktor; SLUKHOTSKIY, A.Ye., kandidat tekhnicheskikh nauk, redaktor; GLUKHANOV, G.P., kandidat tekhnicheskikh nauk, redaktor; BAMUNER, A.V., inzhener, redaktor; VASIL'YEVA, V.P., redaktor izdatel'stva; DONSKOY, A.L. professor, doktor tekhnicheskikh nauk, retsensent; STICHIVA, O.V., tekhnicheskiy redaktor.

[Use of through induction heating in industry] Применение сквозного индукционного нагрева в промышленности. Izd.2-oe, ispr. i dop. Pod red. A.A.Fogelia. Moskva, Gos.nauchno-tekhn.izd-vo zashinostreit. lit-ry, 1957. 78 p. (Biblioteka vysokochastotnika-termista, no.12)

(MLRA 10:6)

(Induction heating)  
(Metals--Heat treatment)

Donskoy, A.V.

DUGODIN, Vsevolod Valentinovich; SLUZHOTSKIY, Aleksandr Yevgen'yevich;  
DONSKOY, A.V., professor, doktor tekhnicheskikh nauk, retsenzent;  
FOGEL', A.A., kandidat tekhnicheskikh nauk, redaktor; SPITSYN, I.A.,  
kandidat tekhnicheskikh nauk, redaktor; SLUZHOTSKIY, A.Ye., kandidat tekhnicheskikh nauk, redaktor; GLUKHANOV, N.P., kandidat tekhnicheskikh nauk, redaktor; BAHUNER, A.V., inzhener, redaktor;  
VASIL'YEVA, V.P., redaktor izdatel'stva; SPERANSKAYA, L.V., tekhnicheskiy redaktor

[Transformers for high-frequency heating] Transformatory i ili  
vysokochastotnogo nagreva. Pod red. A.A.Fogelia. Moscow, Gos.  
nauchno-tekhn.izd-vo mashinostroit. lit-ry, 1957. 70 s. (Bibliotekha  
vysokochastotnika-terniaka, no.7) (MIR 10:11)  
(Induction heating) (Electric transformers)

DONSKOY, Aleksandr Vasil'yevich; RANN, Grigeriy Samoylevich; VIGDOROVICH,  
Yuriy Borisevich; MONDRUS, D.B., redakter; MIKHAYLOVA, Ye.M.,  
tekhnicheskiy redakter.

[High frequency electrothermic apparatus with electron-tube oscillators]  
Vysekhastetnye elektrótermicheskie ustánovki s lampovymi generátorami.  
Moskva, Gos.energ.izd-vo, 1957. 307 p. (MIRA 10:4)  
(Induction heating) (Oscillators, Electron-tube)  
(Dielectric heating)

SOV/112-59-2-3698

8(4), 9(0)

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 2,  
pp 209-210 (USSR)

AUTHOR: Donskoy, A. V., Borok, A. M., and Ivenskiy, G. V.

TITLE: Ionic Frequency Converters for Electrothermal Installations  
(Ionnyye preobrazovateli chastoty dlya elektrotermicheskikh ustavovok)

PERIODICAL: V sb.: Prom. primeneniye tokov vysokoy chastoty Riga, 1957,  
pp 273-286

ABSTRACT: A 60-kw ionic frequency converter for electrothermal installations developed by LII imeni M. I. Kalinin is described. Its output frequency is 2,500-2,800 cps. Its scheme has an implicit DC circuit. Six TR1-15/15 thyratrons are connected on their cathode side in three groups of two and connected to the three-phase rectifying transformer; on their anode side, they are arranged in two groups of three each and connected to the terminals of a single-phase inverter transformer. A smoothing choke coil is connected

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SOV/112-59-2-3698

Ionic Frequency Converters for Electrothermal Installations

between the neutrals of both transformers. An oscillatory circuit formed by the furnace inductor and the phase-control capacitor serves as a load for the converter. The grid-control circuit of the inverter is fed from the converter output via an RC phase shifter. The self-control feature secures the following: (1) an automatic frequency control as the circuit parameters change in the course of metal heating, and (2) short-circuit protection upon collapse of inverter oscillations. However, an additional special device to open the valves for starting is required. When the power is adjusted by the phase shifter, the inverter-transformer ratio is changed and the firing-point-controlling capacitors are switched simultaneously. In the schemes with an explicit DC circuit, the rectifier grid control can be used advantageously. Experimental regulating and load characteristics of the converter are presented. It is pointed out that in schemes with higher frequencies, it is expedient to prolong the recovery time for the valves. Another solution is to use a converter with a

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SOV/112-59-2-3698

Ionic Frequency Converters for Electrothermal Installations

triple output frequency; its briefly presented scheme is a combination of three single-phase inverters whose inverter-transformer secondaries are connected in open delta. Bibliography: 10 items.

V.A.L.

Card 3/3

8(0)

SOV/112-59-1-1038

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 1,  
pp 137-138 (USSR)

AUTHOR: Donskoy, A. V., and Frumkin, A.

TITLE: High-Frequency-Welding of Polyvinyl-Chloride Cable Sheath

PERIODICAL: V sb.: Prom. primeneniye tokov vysokoy chastoty. Riga, 1957,  
pp 365-374

ABSTRACT: A polyvinyl-chloride plastic in the form of a calendered tape is laid by some means on a cable and the tape edges are welded, under suitable pressure, by heating in a UHF field. The optimum field parameters (strength and frequency) ensure a welding speed consistent with the required cable feed rate and good quality of weld. A principal circuit diagram of the UHF outfit is presented and examined in detail; the outfit was tested in a laboratory and in tentative production. Both spiral and longitudinal vinyl-tape laying methods have been tested. The tests have confirmed both in principle and in practice

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SOV/112-59-1-1038

**High-Frequency Welding of Polyvinyl-Chloride Cable Sheath**

the possibility of a continuous welding of both the spiral and longitudinal cable-sheath vinyl tapes by dielectric heating. The longitudinal method is simplest and lowest in cost. It has produced a seam of an entirely satisfactory quality. The weld-seam strength is now lower than that of the solid tape. The maximum cable feed rate for the spiral method is 5 m/min and for the longitudinal, 10 m/min.

I.N.G.

Card 2/2

DONSKOI, A. V., doktor tekhnicheskikh nauk, professor.

Three-phase induction heaters. Vest.mash. 37 no.6:63-66 Je '57.  
(MIRA 10:7)  
(Induction heating)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5

DONSKOY, A.V., doktor tekhn. nauk, prof; FIRSOV, P.V., inzh.

Thermal calculations for surface induction heating. Vest. mash. 37  
no.8:65-70 Ag '57. (MIRA 10:9)  
(Induction heating) (Metals--Heat treatment)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000410920019-5"

110-4-14/25

AUTHORS: Donskoy, A.V., Doctor of Technical Sciences, Professor,  
Borok, A.M., Ivenskiy, G.V., and Khansuvarov, A.A., Engineers.

TITLE: A High-frequency Electro-thermal Installation of a New  
Series (Vysokochastotnaya elektrotermicheskaya ustanovka  
novoy serii)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, No. 4,  
pp. 42 - 47 (USSR).

ABSTRACT: High-frequency electro-thermal installations with valve  
generators for induction-heating are widely used. A mass-  
produced equipment has lacked anode voltage stabilisation and  
needs careful screening to reduce radio interference. A new  
series of equipment has been developed that operates at a  
frequency of 70 kc/s, so that both the fundamental and the  
second harmonic are outside the standard frequency range for  
radio interference. This new equipment, type J173-67, employs  
a stabilised anode-controller rectifier. The main technical  
data are given with a full-circuit diagram in Fig.1 and the  
main components of the circuit are described: the rated output  
is 60 kW. The principles of the grid control system are de-  
scribed. A change of the grid voltage varies the firing angle of  
the valve. The main advantage of the circuit is its simplicity  
and although the accuracy of stabilisation is less than that  
Card1/2 of existing circuits, it is nevertheless adequate. The equipment